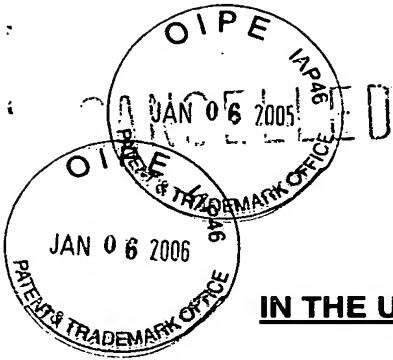


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PATENT APPLICATION
PO-8414
LeA 35,985

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF

DIRK MARSITZKY ET AL

SERIAL NUMBER: 10/516,627

FILED: DECEMBER 01, 2004

TITLE: PHOSPHORESCENT AND LUMINESCENT
CONJUGATED POLYMERS AND THEIR
USE IN ELECTROLUMINESCENT
ASSEMBLIES

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

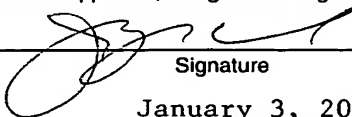
This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements, copies of the articles listed on the attached Form PTO-1449 are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on 1/03/06

Date

Joseph C. Gil, Reg. No. 26,602

Name of applicant, assignee or Registered Representative


Signature

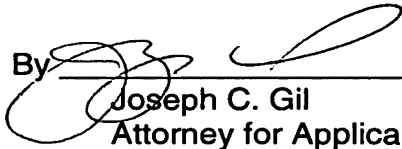
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Date

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

By  _____
Joseph C. Gil
Attorney for Applicant(s)
Reg. No. 26,602

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Form PTO 1449
Rev. 7-80U.S. Department of Commerce
Patent and Trademark Office
LIST OF PRIOR ART CITED BY APPLICANT
(Use Several Sheets If Necessary)Atty. Docket No.
PO8414/LeA 35,985Serial No.
10/516,627Applicant
Sirk Marsitzky et alFiling Date
December 01, 2004

Group No.

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|--|-----------------|----------|---------------------------------------------|-------------------|----------|----------------------------|
| AA | | 6,447,934 B1 | 09/10/02 | Suzuki et al | 428 | 690 | |
| AB | | 6,565,994 B2 | 05/20/03 | Igarashi | 428 | 690 | |
| AC | | 6,603,139 B1 | 08/05/03 | (Bel. to corresp. to WO Tessler et al | 99/54936) 257 | 40 | |
| AD | | 6,803,120 B2 | 10/12/04 | (Bel. to corresp. to EP Fukuoka et al | 1 182 244) 428 | 690 | |
| AE | | 6,696,180 B2 | 02/24/04 | (Bel. to corresp. to EP Doi et al | 1 138 746) 428 | 690 | |
| AF | | 2001/0015432 A1 | 08/23/01 | Igarashi | 257 | 1 | |
| AG | | 2002/0028347 A1 | 03/07/02 | (Bel. to corresp. to WO Marrocco, III et al | 01/96454) 428 | 690 | |
| AH | | 2002/0168544 A1 | 11/14/02 | (Bel. to corresp. to EP Fukuoka et al | 1 182 244) 428 | 690 | |
| AI | | 2004/0131886 A1 | 07/08/04 | (Bel. to corresp. to WO Marrocco, III et al | 01/96454) 428 | 690 | |
| AJ | | | | | | | |
| AK | | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|----------|---------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | AL | *1 138 746 A | 10/04/01 | Europe | | | | |
| | AM | *03/001616 A | 01/03/03 | World | | | | |
| | AN | *03/018653 A | 03/06/03 | World | | | | |
| | AO | *1 245 659 A | 10/02/02 | Europe | | | | |
| | AP | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AR | Appl. Phys. Lett. (12), September 1987, pages 913-915, C.W. Tang et al, "Organic electroluminescent diodes" |
| AS | Angew. Chem. Int. Ed., 37 (month unavailable) 1998, pages 402-428, Arno Kraft et al, "Electroluminescent Conjugated Polymers-Seeing Polymers in a New Light" |
| AT | Appl. Phys. Lett., Vol. 72, No. 21, May 25, 1998, Jayesh Bharathan et al, "Polymer electroluminescent devices processed by inkjet printing: I. Polymer light-emitting logo" |

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| Form PTO 1449 Rev. 7-80 U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary) | Atty. Docket No. PO-8414/LeA 35,985 | Serial No. 10/516,627 |
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U.S. PATENT DOCUMENTS

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|---------------------|----|-----------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | AR | J. Appl. Phys. Vol. 90, No. 10, November 15, 2001, pages 5048-5051, Chihaya Adachi et al, "Nearly 100% internal phosphorescence efficiency in an organic light emitting device" |
| | AS | Organic Electronics, 2, (month unavailable) 2001, pages 53-62, Sergey Lamansky et al, "Molecularly doped polymer light emitting diodes utilizing phosphorescent Pt(II) and Ir(III) dopants" |
| | AT | Chem.. Commun. (month unavailable) 2002, pages 784-785, Jacek C. Ostrowski et al, "Amorphous iridium complexes for electrophosphorescent light emitting devices" |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | |
|--|----|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | AR | | Pure Appl. Chem., Vol. 71, No. 11, (month unavailable) 1999, pages 2095-2106, M.A. Baldo et al, "Phosphorescent materials for application to organic light emitting devices" |
| | AS | | Appl. Phys. Lett. 67 (16), October 16, 1995, pages 2281-2283, J. Kido et al, "Single-layer white Light-emitting organic electroluminescent devices based on dye-dispersed poly(<i>N</i> -vinylcarbazole)" |
| | AT | | Applies Physics Letters, Vol. 79, No. 3, July 16, 2001, pages 308-310, Yuh-Zheng Lee et al, "White-light Electroluminescence from soluble oxadiazole-containing phenylene vinylene ether-linkage copolymer" |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| EXAMINER | DATE CONSIDERED |
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| | AA | | | | | | |
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | |
|--|----|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | AR | | Synthetic Metals, 124 (month unavailable) 2001, pages 323-327, Xiaowei Zhan et al, "Synthesis and characterization of processible electroluminescent poly[(2,7-diethynyl-9,9-di-2-ethylhexyl-fluorene)-alt-co-(2,5-thienylene)] |
| | AS | | *Wong C T et al: "Yellow Light-Emitting Poly(Phenylenevinylene) Incorporated with Pendant Ruthenium Bipyridine and Terpyridine Complexes" Advanced Materials, VCH Verlagsgesellschaft, Weinheim, DE, Bd. 11, Nr. 6, 16. April 1999 (1999-04-16), Seiten 455-459, XP000829960 |
| | AT | | *NG P K et al: "Quinoxaline-Based Conjugated Polymers Containing Ruthenium(II) Bipyridine Metal Complex" Macromolecular: Rapid Communications, Wiley VCH, Weinheim, DE, Bd. 18, Nr. 12, 1. Dezember 1997 (1997-12-01), Seiten 1009-1016, XP000738968 |

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| | AR | *Wong W-Y et al: "Synthesis and Electronic Properties of New Photoluminescent Platinum-Containing Polyyne with 9,9-Dihexylfluorene and 9-Butylcarbazole Units" Macromolecules, American Chemical Society, Easton, US, Bd. 35, 2002 – 19 März 2002 (2002-03-19), Seiten 3506-3513, XP002248213 |
| | AS | |
| | AT | |
| EXAMINER | | DATE CONSIDERED |
| EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |

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